

Midwest Electric Products Load Centers

MQMH000 Conversion Kit Maximum 125A Convertible Main Lug Load Centers

NOTE: This kit fits all 125 ampere Midwest Electric Products Convertible Load Centers with the prefix "MLM" and with 12 or more circuits.

General

To comply with the National Electrical Code and Underwriters Laboratories, the load center must be installed in accordance with the information included on the label on the inside of the equipment. This must be done in accordance with applicable local electrical codes, and by a qualified electrical contractor and/or licensed electrician.



WARNING: Hazard of electrical shock or burn. Turn off power before working inside this equipment.

Installation Instructions

1. Insert the Service Barriers (A) onto line side of main circuit breaker (D) as shown in Figure 1. Two Service Barriers included with the kit, need to assemble to both the poles.

Use only a General Electric type THQL or THHQL two-pole circuit breaker, rated 60 to 125 amperes.

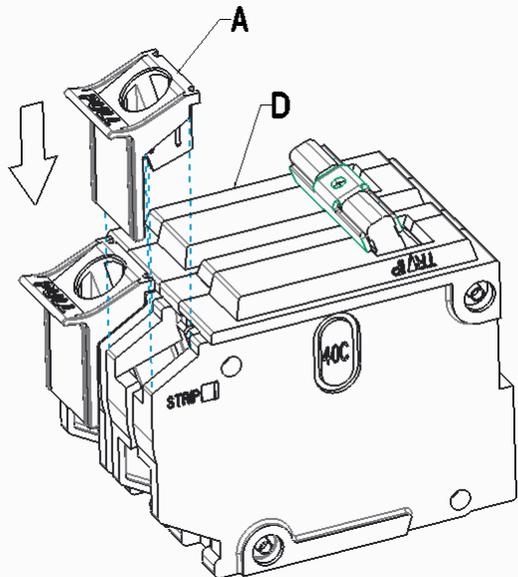


Figure 1: Insert Service Barrier onto Main Circuit Breaker

2. Plug the main circuit breaker (D) in Figure 2, onto the TQMHO00 base (E), ensuring that the breaker heel is engaged under the base hook (F).

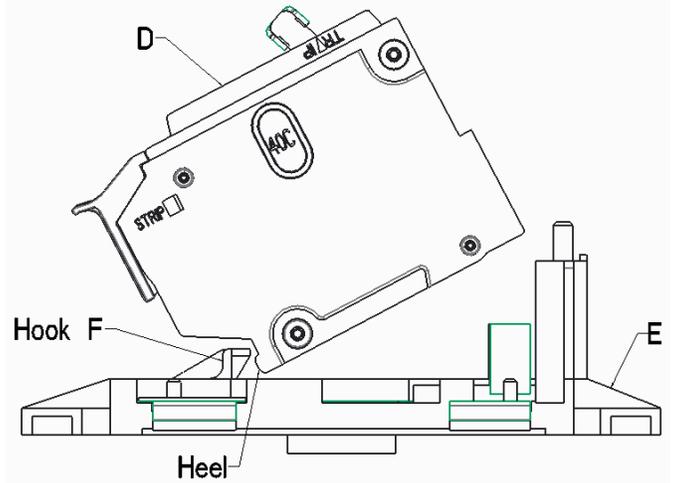


Figure 2: Plug the breaker onto the conversion kit base.

3. Secure the breaker to the base (E), using the retainer plate (G) and push nut (H), as illustrated in Figure 3. The push nut can be firmly pressed into place using a tool with a tubular end, such as a $\frac{5}{16}$ " socket or nut driver.

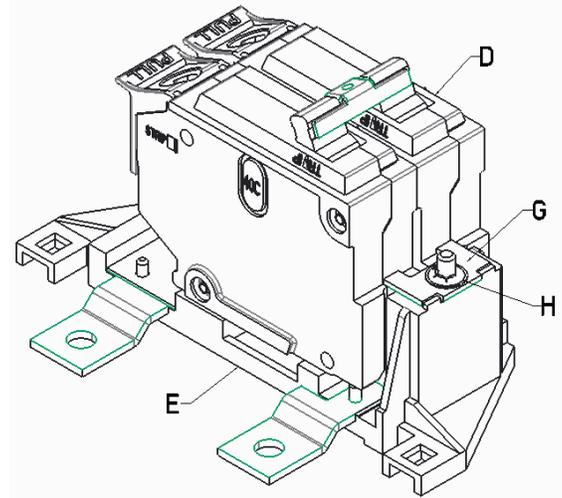


Figure 3: Secure the breaker to the conversion kit base.

4. Remove the main lugs from the load center interior. Keep the nuts (K), shown in Figure 4, for future use.
5. Insert the straps on the conversion kit base onto the threaded stud (J), positioning the base (E) over the snap fingers (L) on the load center interior.
6. Push the base (E) over the snap fingers (L) until they are fully engaged, then tighten the nuts (K) to 35 to 50 in-lb.

CAUTION: The breaker is permanently fastened to the base (E). Do not attempt to remove it.

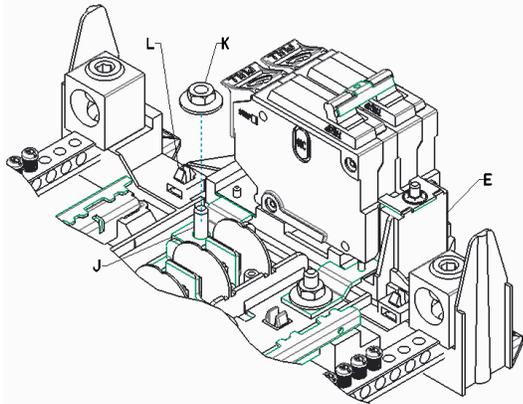


Figure 4: Assemble the conversion kit with breaker to the load center interior.

⚠ WARNING: Service barriers (A) must be correctly installed on the line side of a main device in load centers, and MSLC to ensure isolation from live parts.

⚠ WARNING: Installing an incorrect size wire than the specified sizes for each circuit breaker frame will negate the barrier ability to protect personnel from exposed live components.

Location	Conductors
Lug Hole	10 AWG to 2/0 AWG Cu/Al

Table 1: shows the allowable wire range for the barrier.

The wires must be stripped to the correct length to maintain isolation. Strip the wire to a maximum of 0.595 inches.

After stripping the wires to the required length, the wires can be installed as shown in Figure 5. The service barrier must be correctly installed to maintain electrical isolation from accidental contact. Torque the wires according to the torque specification on the breaker.

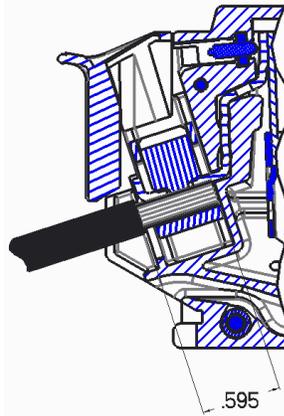


Figure 5: Stripped wire installed

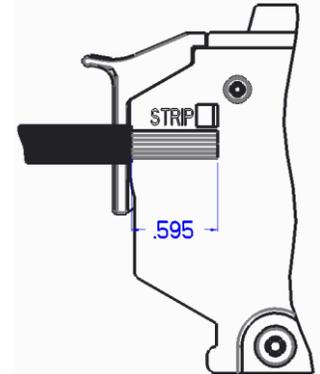
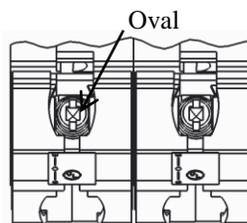


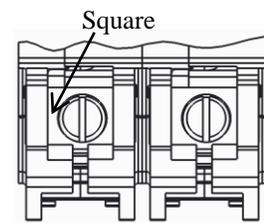
Figure 6: Max. Strip Wire Length.

The strip wire length are measured to the scale provided on side of main circuit breaker, as shown on Figure 6.

Some THQL (1p and 2p up to 60 Amps) are finger safe and do not require a Service barrier. See Figure 7.



Barriers not required



Barriers required

Figure 7: Breakers Where Service Barriers Are Required

These instructions do not purport to cover all details or variations in equipment nor do they provide for every possible contingency that may be met in connection with installation, operation, or maintenance. Should further information be desired or should particular problems arise that are not covered sufficiently for the purchaser's purposes, the matter should be referred to the Midwest Electric Products.

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